

Serial Number: 09/310,685

CRF Processing Date: 6/16/2003

Edited by:

Verified by:

(STIC staff)

ENTERED

- ☐ Changed a file from non-ASCII to ASCII
- ☐ Changed the margins in cases where the sequence text was "wrapped" down to the next line.
- ☐ Edited a format error in the Current Application Data section, specifically: P#30
- ☐ Edited the Current Application Data section with the actual current number. The number inputted by the applicant was ☐ the prior application data; or ☐ other _____
- ☐ Added the mandatory heading and subheadings for "Current Application Data".
- ☐ Edited the "Number of Sequences" field. The applicant spelled out a number instead of using an integer.
- ☐ Changed the spelling of a mandatory field (the headings or subheadings), specifically: _____
- ☐ Corrected the SEQ ID NO when obviously incorrect. The sequence numbers that were edited were: _____
- ☐ Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited: _____
- ☐ Corrected subheading placement. All responses must be on the same line as each subheading. If the applicant placed a response below the subheading, this was moved to its appropriate place.
- ☐ Inserted colons after headings/subheadings. Headings edited included: _____
- ☐ Deleted extra, invalid, headings used by an applicant, specifically: _____
- ☒ Deleted: ☒ non-ASCII "garbage" at the beginning/end of files; ☐ secretary initials/filename at end of file; ☐ page numbers throughout text; ☐ other invalid text, such as _____
- ☐ Inserted mandatory headings, specifically: _____
- ☐ Corrected an obvious error in the response, specifically: _____
- ☐ Edited identifiers where upper case is used but lower case is required, or vice versa.
- ☐ Corrected an error in the Number of Sequences field, specifically: _____
- ☐ A "Hard Page Break" code was inserted by the applicant. All occurrences had to be deleted.
- ☐ Deleted **ending** stop codon in amino acid sequences and adjusted the "(A)Length:" field accordingly (error due to a PatentIn bug). Sequences corrected: _____
- ☐ Other: _____

*Examiner: The above corrections must be communicated to the applicant in the first Office Action. DO NOT send a copy of this form.



1600

RAW SEQUENCE LISTING

DATE: 06/16/2003

PATENT APPLICATION: US/09/310,685

TIME: 14:00:39

Input Set : N:\AMC\310685.txt

Output Set: N:\CRF4\06162003\I310685.raw

3 <110> APPLICANT: Lamb, Jonathan R
 4 Dallman, Margaret J
 5 Hoyne, Gerard F
 7 <120> TITLE OF INVENTION: Notch
 9 <130> FILE REFERENCE: 674525-2001
 11 <140> CURRENT APPLICATION NUMBER: 09/310,685
 12 <141> CURRENT FILING DATE: 1999-05-04
 14 <150> PRIOR APPLICATION NUMBER: GB 9623236.8
 15 <151> PRIOR FILING DATE: 1996-11-07
 17 <150> PRIOR APPLICATION NUMBER: GB 9715674.9
 18 <151> PRIOR FILING DATE: 1997-07-24
 20 <150> PRIOR APPLICATION NUMBER: GB 9719350.2
 21 <151> PRIOR FILING DATE: 1997-09-11
 23 <150> PRIOR APPLICATION NUMBER: PCT/GB97/03058
 24 <151> PRIOR FILING DATE: 1997-11-06
 26 <160> NUMBER OF SEQ ID NOS: 32
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 32 <212> TYPE: DNA
 33 <213> ORGANISM: Drosophila sp.
 35 <400> SEQUENCE: 1

P.6

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42	ttcacagtca	tcgtgcaggt	tcacagttcc	ggcagctttg	agttgcgcct	gaagtacttc	240
44	agcaacgatc	acgggcgagg	caacgagggg	cgctgctgca	gcggggagtc	ggacggagcg	300
46	acggggcaagt	gcctgggcag	ctgcaagacg	cggtttcgcg	tctgcctaaa	gcactaccag	360
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RAW SEQUENCE LISTING

DATE: 06/16/2003

PATENT APPLICATION: US/09/310,685

TIME: 14:00:39

Input Set : N:\AMC\310685.txt

Output Set: N:\CRF4\06162003\I310685.raw

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128 gttgtgtgtg attgaagcag tttagtctgc acgaaaaatg aaaaatctgt aacaggcata 2820
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138 <213> ORGANISM: Drosophila sp.
140 <400> SEQUENCE: 2
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147 20 25 30
150 Phe Ser Asn Asp His Gly Arg Asp Asn Glu Gly Arg Cys Cys Ser Gly
151 35 40 45
154 Glu Ser Asp Gly Ala Thr Gly Lys Cys Leu Gly Ser Cys Lys Thr Arg
155 50 55 60
158 Phe Arg Val Cys Leu Lys His Tyr Gln Ala Thr Ile Asp Thr Thr Ser
159 65 70 75 80
162 Gln Cys Thr Tyr Gly Asp Val Ile Thr Pro Ile Leu Gly Glu Asn Ser
163 85 90 95
166 Val Asn Leu Thr Asp Ala Gln Arg Phe Gln Asn Lys Gly Phe Thr Asn
167 100 105 110
170 Pro Ile Gln Phe Pro Phe Ser Phe Ser Trp Pro Gly Thr Phe Ser Leu
171 115 120 125

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RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/310,685

DATE: 06/16/2003

TIME: 14:00:39

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Output Set: N:\CRF4\06162003\I310685.raw

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178 Asn Lys Leu Leu Ile Gln Arg Leu Leu Val Gln Gln Val Leu Glu Val
179 145      150      155      160
182 Ser Ser Glu Trp Lys Thr Asn Lys Ser Glu Ser Gln Tyr Thr Ser Leu
183      165      170      175
186 Glu Tyr Asp Phe Arg Val Thr Cys Asp Leu Asn Tyr Tyr Gly Ser Gly
187      180      185      190
190 Cys Ala Lys Phe Cys Arg Pro Arg Asp Asp Ser Phe Gly His Ser Thr
191      195      200      205
194 Cys Ser Glu Thr Gly Glu Ile Ile Cys Leu Thr Gly Trp Gln Gly Asp
195      210      215      220
198 Tyr Cys His Ile Pro Lys Cys Ala Lys Gly Cys Glu His Gly His Cys
199 225      230      235      240
202 Asp Lys Arg Asn Gln Cys Val Cys Gln Leu Gly Trp Lys Gly Ala Leu
203      245      250      255
206 Cys Asn Glu Cys Val Leu Glu Pro Asn Cys Ile His Gly Thr Cys Asn
207      260      265      270
210 Lys Pro Trp Thr Cys Ile Cys Asn Glu Gly Trp Gly Gly Leu Tyr Cys
211      275      280      285
214 Asn Gln Asp Leu Asn Tyr Cys Thr Asn His Arg Pro Cys Lys Asn Gly
215      290      295      300
218 Gly Thr Cys Phe Asn Thr Gly Glu Gly Leu Tyr Thr Cys Lys Cys Ala
219 305      310      315      320
222 Pro Gly Tyr Ser Gly Asp Asp Cys Glu Asn Glu Ile Tyr Ser Cys Asp
223      325      330      335
226 Ala Asp Val Asn Pro Cys Gln Asn Gly Gly Thr Cys Ile Asp Glu Pro
227      340      345      350
230 His Thr Lys Thr Gly Tyr Lys Cys His Cys Ala Asn Gly Trp Ser Gly
231      355      360      365
234 Lys Met Cys Glu Glu Lys Val Leu Thr Cys Ser Asp Lys Pro Cys His
235      370      375      380
238 Gln Gly Ile Cys Arg Asn Val Arg Pro Gly Leu Gly Ser Lys Gly Gln
239 385      390      395      400
242 Gly Tyr Gln Cys Glu Cys Pro Ile Gly Tyr Ser Gly Pro Asn Cys Asp
243      405      410      415
246 Leu Gln Leu Asp Asn Cys Ser Pro Asn Pro Cys Ile Asn Gly Gly Ser
247      420      425      430
250 Cys Gln Pro Ser Gly Lys Cys Ile Cys Pro Ala Gly Phe Ser Gly Thr
251      435      440      445
254 Arg Cys Glu Thr Asn Ile Asp Asp Cys Leu Gly His Gln Cys Glu Asn
255      450      455      460
258 Gly Gly Thr Cys Ile Asp Met Val Asn Gln Tyr Arg Cys Gln Cys Val
259 465      470      475      480
262 Pro Gly Phe His Gly Thr His Cys Ser Ser Lys Val Asp Leu Cys Leu
263      485      490      495
266 Ile Arg Pro Cys Ala Asn Gly Gly Thr Cys Leu Asn Leu Asn Asn Asp
267      500      505      510
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RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/310,685

DATE: 06/16/2003

TIME: 14:00:39

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Output Set: N:\CRF4\06162003\I310685.raw

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279 545          550          555          560
282 Gly Lys Gln Cys Asp Glu Glu Ser Tyr Asp Ser Val Thr Phe Asp Ala
283          565          570          575
286 His Gln Tyr Gly Ala Thr Thr Gln Ala Arg Ala Asp Gly Leu Thr Asn
287          580          585          590
290 Ala Gln Val Val Leu Ile Ala Val Phe Ser Val Ala Met Pro Leu Val
291          595          600          605
294 Ala Val Ile Ala Ala Cys Val Val Phe Cys Met Lys Arg Lys Arg Lys
295          610          615          620
298 Arg Ala Gln Glu Lys Asp Asp Ala Glu Ala Arg Lys Gln Asn Glu Gln
299 625          630          635          640
302 Asn Ala Val Ala Thr Met His His Asn Gly Ser Gly Val Gly Val Ala
303          645          650          655
306 Leu Ala Ser Ala Ser Leu Gly Gly Lys Thr Gly Ser Asn Ser Gly Leu
307          660          665          670
310 Thr Phe Asp Gly Gly Asn Pro Asn Ile Ile Lys Asn Thr Trp Asp Lys
311          675          680          685
314 Ser Val Asn Asn Ile Cys Ala Ser Ala Ala Ala Ala Ala Ala Ala
315          690          695          700
318 Ala Ala Ala Asp Glu Cys Leu Met Tyr Gly Gly Tyr Val Ala Ser Val
319 705          710          715          720
322 Ala Asp Asn Asn Asn Ala Asn Ser Tyr Phe Cys Val Ala Pro Leu Gln
323          725          730          735
326 Arg Ala Lys Ser Gln Lys Gln Leu Asn Thr Asp Pro Thr Leu Met His
327          740          745          750
330 Arg Gly Ser Pro Ala Gly Ser Ser Ala Lys Gly Ala Ser Gly Gly Gly
331          755          760          765
334 Pro Gly Ala Ala Glu Gly Lys Arg Ile Ser Val Leu Gly Glu Gly Ser
335          770          775          780
338 Tyr Cys Ser Gln Arg Trp Pro Ser Leu Ala Ala Gly Val Ala Gly
339 785          790          795          800
342 Ala Cys Ser Ser Gln Leu Met Ala Ala Ala Ser Ala Ala Gly Ser Gly
343          805          810          815
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364 ggagggggag cgtctcaaag aagcgatcag aataataaaa ggaggccggg ctctttgcct      180
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RAW SEQUENCE LISTING

DATE: 06/16/2003

PATENT APPLICATION: US/09/310,685

TIME: 14:00:39

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372 gcgcgcagcg atgcgttccc cacggacacg cggccgggtcc gggcgcccc taagcctcct 420
374 gctcgccctg ctctgtgccc tgcgagccaa ggtgtgtggg gcctcggttc agttcgagtt 480
376 ggagatcctg tccatgcaga acgtgaacgg ggagctgcag aacgggaact gctgcggcgg 540
378 cgcccggaac ccgggagacc gcaagtgcac ccgcgacgag tgtgacacat acttcaaagt 600
380 gtgcctcaag gagtatcagt cccgcgtcac ggccgggggg ccctgcagct tcggctcagg 660
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384 gaaccgcctc gtgctgcctt tcagtttcgc ctggccgagg tcctatacgt tgcttgtgga 780
386 ggcgtgggat tccagtaatg acaccgttca acctgacagt attattgaaa aggccttctca 840
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390 ccactttgag tatcagatcc gcgtgacctg tgatgactac tactatggct ttggctgtaa 960
392 taagttctgc cgccccagag atgacttctt tggacactat gcctgtgacc agaattggaa 1020
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396 ctgcagtcct aagcatgggt ctgtcaaaact cccaggtgac tgcaggtgcc agtacggctg 1140
398 gcaaggcctg tactgtgata agtgcacccc acaccggga tgcgtccacg gcatctgtaa 1200
400 tgagccctgg cagtgcctct gtgagaccaa ctggggcggc cagctctgtg acaaagatct 1260
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RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/09/310,685

DATE: 06/16/2003
TIME: 14:00:40

Input Set : N:\AMC\310685.txt
Output Set: N:\CRF4\06162003\I310685.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:10; N Pos. 829,830

Seq#:16; N Pos. 559,678,689,1246,1287,1492,1524,1569,1621,1656,1738,1857

Seq#:16; N Pos. 1861,1876,1888,1899,1917,1925,1931,1935,1942,1943,1952,1953

Seq#:16; N Pos. 1954,1968



1600

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/310,685

DATE: 06/16/2003

TIME: 13:57:57

Input Set : N:\AMC\00130818.txt

Output Set: N:\CRF4\06162003\I310685.raw

3 <110> APPLICANT: Lamb, Jonathan R
 4 Dallman, Margaret J
 5 Hoyne, Gerard F
 7 <120> TITLE OF INVENTION: Notch
 9 <130> FILE REFERENCE: 674525-2001
 11 <140> CURRENT APPLICATION NUMBER: 09/310,685
 12 <141> CURRENT FILING DATE: 1999-05-04
 14 <150> PRIOR APPLICATION NUMBER: GB 9623236.8
 15 <151> PRIOR FILING DATE: 1996-11-07
 17 <150> PRIOR APPLICATION NUMBER: GB 9715674.9
 18 <151> PRIOR FILING DATE: 1997-07-24
 20 <150> PRIOR APPLICATION NUMBER: GB 9719350.2
 21 <151> PRIOR FILING DATE: 1997-09-11
 23 <150> PRIOR APPLICATION NUMBER: PCT/GB97/03058
 24 <151> PRIOR FILING DATE: 1997-11-06
 26 <160> NUMBER OF SEQ ID NOS: 32
 28 <170> SOFTWARE: PatentIn version 3.2

ERRORED SEQUENCES

3143 <210> SEQ ID NO: 32
 3144 <211> LENGTH: 4
 3145 <212> TYPE: PRT
 3146 <213> ORGANISM: Homo sapiens
 3148 <400> SEQUENCE: 32
 3150 Arg Lys Arg Pro

3151 1
 E--> 3154 1
 E--> 3157 1

Does Not Comply
 Corrected Diskette Needed

delete

VERIFICATION SUMMARY

DATE: 06/16/2003

PATENT APPLICATION: US/09/310,685

TIME: 13:57:58

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Output Set: N:\CRF4\06162003\I310685.raw

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L:2835 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16 after pos.:540

M:341 Repeated in SeqNo=16

L:3154 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:32

M:332 Repeated in SeqNo=32